

EAST #[Untitled1.1]

File View Edit Tools Window Help

Drafts
 Pending
 Active
 L1: (39) steering same motor same reluctance
 L2: (6) steering same motor same reluctance same switched
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 OR: USPAI
 Plural
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	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6107767 A	20000822	20	Electric assist steering system having an improved	318/561	318/432; 318/623;
9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6068078 A	20000530	8	Electric steering system	180/446	318/489; 701/41
10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6046560 A	20000404	21	Electric assist steering system having an improved	318/432	180/443; 180/446;
11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6008599 A	19991228	18	Method and apparatus for controlling an electric	318/254	180/446; 318/599;
12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5998952 A	19991207	18	Method and apparatus for	318/432	318/696

Start

Inbox - Microsoft Outlook WordPerfect - [Document1] WordPerfect Macro Facility WIP Print Process EAST #[Untitled1.1]

DOCUMENT-IDENTIFIER: US 4896089 A
 TITLE: Fault management system for a switched reluctance motor

----- KWIC -----

BRP:
 In a typical switched reluctance motor, pole excitation windings on directly opposite stator poles are connected in series aiding to achieve balanced magnetic and mechanical operation. In particular, leakage flux is minimized for maximum utilization of the available ampere-turns, and the radial magnetic forces on the rotor cancel, thus resulting in minimum shaft deflection and vibration. Therefore, there are effectively a number of separate circuits equal to one-half the number of stator poles, the circuits being spatially, chaically, and magnetically isolated from each other. The present invention utilizes the characteristic independence of the motor phase circuits as the basis for a fault-tolerant drive scheme. Such a fault-tolerant motor drive would be particularly useful in aerospace applications, including fuel pumps and electric generators and the like, for which a motor should continue operating, and also be startable, in spite of a phase fault. Another exemplary application is in automotive power steering.

United States Patent [19] Patent Number: 4,896,089
 Kline et al. [43] Date of Patent: Jan. 23, 1990

[54] FAULT MANAGEMENT SYSTEM FOR A SWITCHED RELUCTANCE MOTOR
 [52] Int. Cl. H02K 11/28
 [51] U.S. Cl. 318/718; 318/727; 318/729; 318/730; 318/731; 318/732; 318/733; 318/734; 318/735; 318/736; 318/737; 318/738; 318/739; 318/740; 318/741; 318/742; 318/743; 318/744; 318/745; 318/746; 318/747; 318/748; 318/749; 318/750; 318/751; 318/752; 318/753; 318/754; 318/755; 318/756; 318/757; 318/758; 318/759; 318/760; 318/761; 318/762; 318/763; 318/764; 318/765; 318/766; 318/767; 318/768; 318/769; 318/770; 318/771; 318/772; 318/773; 318/774; 318/775; 318/776; 318/777; 318/778; 318/779; 318/780; 318/781; 318/782; 318/783; 318/784; 318/785; 318/786; 318/787; 318/788; 318/789; 318/790; 318/791; 318/792; 318/793; 318/794; 318/795; 318/796; 318/797; 318/798; 318/799; 318/800; 318/801; 318/802; 318/803; 318/804; 318/805; 318/806; 318/807; 318/808; 318/809; 318/810; 318/811; 318/812; 318/813; 318/814; 318/815; 318/816; 318/817; 318/818; 318/819; 318/820; 318/821; 318/822; 318/823; 318/824; 318/825; 318/826; 318/827; 318/828; 318/829; 318/830; 318/831; 318/832; 318/833; 318/834; 318/835; 318/836; 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EAST: [Untitled1.1]								
File Edit Tools Window Help								
<input type="checkbox"/> Drafts <input type="checkbox"/> Pending <input checked="" type="checkbox"/> Active L1: (39) steering same mot								
Search: <input type="text"/> <input type="button" value="Find"/> <input type="button" value="Next"/> <input type="button" value="Previous"/> <input type="button" value="First"/> DB: USPAT <input type="button" value="Search"/> <input type="button" value="Print"/> <input type="checkbox"/> Exclude <input checked="" type="checkbox"/> Highlight all hit terms in table <input type="button" value="BRS L"/> <input type="button" value="BRS R"/> <input type="button" value="Image"/> <input type="button" value="Text"/> <input type="button" value="HTML"/>								
	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6373211 B1	20020416	20	Extended speed range operation of permanent	318/432	180/443; 180/446;
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6329782 B1	20011211	15	Method and apparatus for robust generation of an	318/727	318/138; 318/254;
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6338016 B1	20020108	11	Method and apparatus for detecting a motor stall	701/43	180/443; 180/446;
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6295879 B1	20011002	13	Torque sensing apparatus for an electric assist steering	73/862.08	180/444
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6166464 A	20001226	14	Power module	310/68R	310/68D
6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6144137 A	20001107	9	Electric motor assembly for a vehicle steering system	310/258	310/51; 310/89
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6138596 A	20001031	10	Damped steering mechanism for a watercraft	114/144R	114/150; 280/272;
8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6107767 A	20000822	20	Electric assist steering system having an improved	318/561	318/432; 318/623;
9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6068078 A	20000530	8	Electric steering system	180/446	318/489; 701/41
10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6046560 A	20000404	21	Electric assist steering system having an improved	318/432	180/443; 180/446;
11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6008599 A	19991228	18	Method and apparatus for controlling an electric	318/254	180/446; 318/599;
12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5998952 A	19991207	18	Method and apparatus for reducing torque ripple in an	318/432	318/696
13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5992556 A	19991130	10	Method and apparatus for damping control of an	180/446	701/41
14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5979587 A	19991109	8	Electrically assisted power steering apparatus	180/446	318/433; 318/621
15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5971094 A	19991026	11	Electric power steering device	180/444	
16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5786754 A	19980728	15	Method and apparatus for electronically cancelling a	340/476	180/401; 340/475;
17	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5743352 A	19980428	6	Electrically-actuated power steering system	180/446	
18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5743351 A	19980428	10	Method and apparatus for controlling an electric	180/446	701/41
19	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5740880 A	19980421	9	Speed tracking of induced armature field in electric	180/446	318/718; 318/805;
20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5738183 A	19980414	12	Motor operated power steering device	180/444	74/388PS
21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5625239 A	19970429	11	Method and apparatus for sensing relative position	310/68B	310/171; 324/207.17;
22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5623409 A	19970422	17	Method and apparatus for non-linear damping of an	701/41	180/443; 180/446;
23	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5568389 A	19961022	10	Method and apparatus for controlling an electric	701/41	180/446
24	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5523637 A	19960604	6	Permanent magnet electrical	310/156.47	310/152;
Start <input type="button" value="Previous"/> <input type="button" value="Next"/> <input type="button" value="First"/> <input type="button" value="Last"/>								
<input type="button" value="Inbox - Microsoft Outlook"/> <input type="button" value="WordPerfect - (Document)"/> <input type="button" value="WordPerfect Macro Facility"/> <input type="button" value="WP Print Process"/> EAST: [Untitled1.1]								

steering w/
variable reluctance motors
1-30

EAST - [Untitled1:1]

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 L1: (39) steering same mot

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	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6107767 A	20000822	20	Electric assist steering system having an improved	318/561	318/432; 318/623;
9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6068078 A	20000530	8	Electric steering system	180/446	318/489; 701/41
10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6046560 A	20000404	21	Electric assist steering system having an improved	318/432	180/443; 180/446;
11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6008599 A	19991228	18	Method and apparatus for controlling an electric	318/254	180/446; 318/599;
12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5998952 A	19991207	18	Method and apparatus for reducing torque ripple in an	318/432	318/696
13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5992556 A	19991130	10	Method and apparatus for damping control of an	180/446	701/41
14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5979587 A	19991109	8	Electrically assisted power steering apparatus	180/446	318/433; 318/621
15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5971094 A	19991026	11	Electric power steering device	180/444	
16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5786754 A	19980728	15	Method and apparatus for electronically cancelling a	340/476	180/401; 340/475;
17	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5743352 A	19980428	6	Electrically-actuated power steering system	180/446	
18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5743351 A	19980428	10	Method and apparatus for controlling an electric	180/446	701/41
19	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5740880 A	19980421	9	Speed tracking of induced armature field in electric	180/446	318/718; 318/805;
20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5738183 A	19980414	12	Motor operated power steering device	180/444	74/388PS
21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5625239 A	19970429	11	Method and apparatus for sensing relative position	310/68B	310/171; 324/207.17;
22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5623409 A	19970422	17	Method and apparatus for non-linear damping of an	701/41	180/443; 180/446;
23	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5568389 A	19961022	10	Method and apparatus for controlling an electric	701/41	180/446
24	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5523637 A	19960604	6	Permanent magnet electrical machine with low reluctance	310/156.47	310/152; 310/156.25;
25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5504403 A	19960402	14	Method and apparatus for controlling an electric	318/432	180/446; 318/433;
26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5475289 A	19951212	10	Method and apparatus for controlling an electric	318/432	180/446; 318/254;
27	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5473231 A	19951205	14	Method and apparatus for controlling an electric	318/433	180/446; 318/432
28	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5406155 A	19950411	16	Method and apparatus for sensing relative position	310/68B	310/171; 324/207.17;
29	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5257828 A	19931102	15	Method and apparatus for controlling damping in an	180/446	701/41
30	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 4896089 A	19900123	16	Fault management system for a switched reluctance motor	318/701	318/254; 318/430;

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